



Cisco Secure Console Servers

C8220TG-48A-O

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Overview

The Cisco® Secure Console Servers provide secure, high-density, out-of-band serial console access to routers, switches, firewalls, servers, storage arrays, and power distribution units in data centers and colocation facilities. When the production network is down, the console server is the last line of defense – the always-available management plane that keeps operations teams connected to critical infrastructure.

Use cases

- Out-of-band management and recovery of remote network devices during primary network outages.
- Centralized serial console access for lights-out data centers and edge sites.

Key features

- SONiC-based OS – open, hyperscaler-adopted OS; vendor flexibility.
- Hardware Trusted Platform Module (TPM) for Secure Boot – hardware root of trust; blocks unsigned firmware.
- 10 Gigabit Ethernet (GE) uplinks – aligns with modern data center standards for upstream connectivity.
- Dual power supplies – redundant feeds; no single point of failure.

Models and specifications

The C8220TG-48A-O is a 1-rack-unit (1RU) fixed-form-factor secure console server. It provides 48x RJ-45 asynchronous serial ports for out-of-band console management, along with 1/10 GE uplinks for the management switch connectivity and runs on SONiC as an open, disaggregated OS.

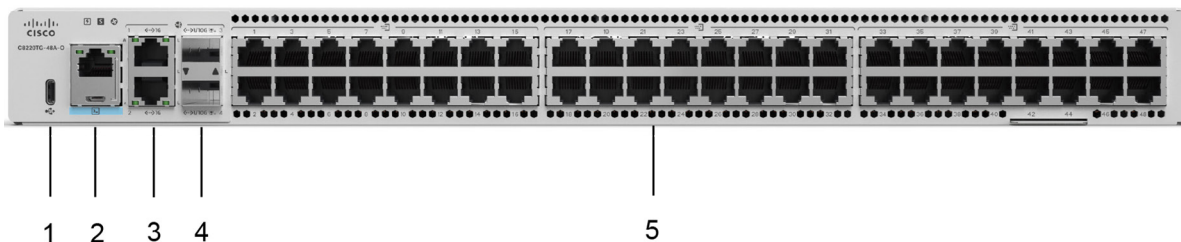


Figure 1. Front view of a Cisco C8220TG-48A-O Secure Console Server

Table 1. Descriptions of front panel components

Label	Description
1	USB 3.0 Type C
2	Console RJ-45/Micro-USB port
3	2x 1 GE copper ports
4	2x 1/10 GE SFP+ ports
5	48 RJ-45 asynchronous ports

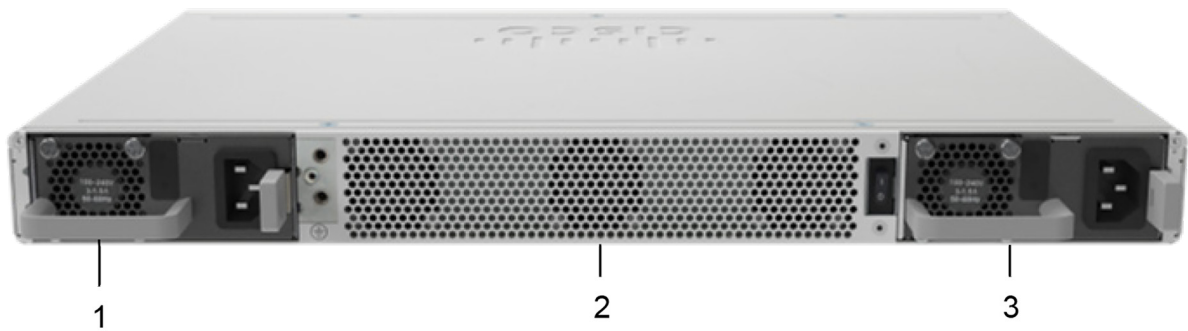


Figure 2. Rear panel of a Cisco C8220TG-48A-O Secure Console Server

Table 2. Descriptions of rear panel components

Label	Description
1	Power supply 1
2	2 fans
3	Power supply 2



Table 3. Technical specifications

	C8220TG-48A-O
Interfaces and slots	
Uplink ports	2x 1 GE (copper) 2x 1/10 GE (SFP+)
Asynchronous ports	48 RJ-45
Memory and storage	
DRAM	16 GB
Storage	32 GB
Power supply	250W AC

Table 4. Physical specifications

	C8220TG-48A-O
Dimensions (H x W x D)	1.73 x 17.50 x 12 in. (4.39 x 44.45 x 30.48 cm)
Rack units (RU)	1 RU
Chassis weight with 2 AC power supplies and fan tray	12.4 lb (5.62 kg)
Operating temperature	32° to 104°F (0° to 40°C)
Storage temperature	-40° to 150°F (-40° to 66°C)
Relative humidity (ambient, noncondensing)	Operating: 10% to 85% Storage: 5% to 95%
Altitude	-500 to 10,000 feet (-152 to 3048 meters)



SONiC software

SONiC provides a programmable and flexible platform for building high-performance, cloud-scale networking solutions. The integration of SONiC with the Cisco Secure Console Servers unlocks several key benefits:

- **Open and programmable:** SONiC is an open-source network operating system that provides a programmable and flexible platform for building network solutions.
- **Cloud-native architecture:** The Secure Console Servers with SONiC leverage a cloud-native architecture, enabling rapid feature development and updates.
- **Operational efficiency:** SONiC’s automated provisioning, monitoring, and troubleshooting capabilities help improve operational efficiency.

Ordering information

When placing your order in Cisco Commerce (CCW), ensure that the following components are selected:

Table 5. Ordering configuration components

Component	Product ID (PID)	Notes
Base platform	C8220TG-48A-O	Includes 48x RJ-45 ports and 1/10 GE uplinks
Primary power supply	PWR-CC1-250WAC	Included with base unit
Secondary power supply	PWR-CC1-250WAC/2	Optional (for redundancy)
Rack mount kit	C8220TG-ACCKIT-19	19-inch mounting hardware
Software	SO-TG-TRK	SONiC OS
Software License (SONiC)	TG-OS-E-O	SONiC Software License

Ordering steps

- 1. Search:** Log in to Cisco Commerce (CCW) and search for the base platform PID: C8220TG-48A-O.
- 2. Power configuration:** The primary power supply is included. Add PWR-CH1-250WAC/2 if you require a redundant power feed.
- 3. Accessories:** Select the C8220TG-ACCKIT-19 rack mount kit.
- 4. Software:** Select the required software subscription: SO-TG-TRK.
- 5. Validation:** Review the configuration summary in CCW to ensure that all required components are present and validate the order before submission.

Warranty information

Cisco Secure Console Servers come with a standard Cisco Limited 2-Year Return to Factory Hardware Warranty.

Product sustainability

Information about Cisco's Environmental, Social, and Governance (ESG) initiatives and performance is provided in Cisco's CSR and sustainability reporting.